

Name_____Period_____

Chemistry: Atomic Structure: Worksheet

Date_____

Element Name	Symbol	Mass Number	Atomic Number	Number of Protons	Number of Neutrons	Number of Electrons	Charge
carbon		12					0
barium		137				54	0
	Fe			26	30		0
calcium		40	20				0
Helium		4					0
neon					10	10	0
argon		40				18	0
	S				16	16	0
sodium		23					0
zinc	Zn		30		35		0
	U	235				92	0
	U	238				92	0
chlorine	Cl				20		0
	O	16				8	0
nitrogen		14					0
iron			26		30		0
	Au	197				79	0

Ion Formation

Element Name	Atomic number	Number of Protons	Number of Electrons	Fewer electrons than protons	More electrons than protons	Charge	Ionic Symbol
Calcium	20	20	18	2	X	+2	Ca ⁺²
barium	56		54				
Li		3		1	X		Li ⁺¹
calcium		20	18				
Helium		2	2	X	X	0	
	19					+1	
Iron	26		24				
iron	26		23				
sodium		11	10				
Fluorine	9	9	10	X	1	-1	Cl ⁻¹
	35		36				
Oxygen	8		10	X	2		
chlorine	17		18			-1	
		34	36				Se ⁻²
nitrogen	7	7	10				N ⁻³
			18				P ⁻³
Sulfur	16	16		X	2	-2	
Iodine			54	X			